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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,637		11/09/2001	Xuesong Chen	9351-80 HSF	5610
1059	7590	09/29/2003			
BERESKI	N AND P	ARR	EXAMINER		
SCOTIA PLAZA 40 KING STREET WEST-SUITE 4000 BOX 401 TORONTO, ON M5H 3Y2 CANADA				KALAFUT, STEPHEN J	
				ART UNIT	PAPER NUMBER
				1745	
				DATE MAILED: 09/29/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>	Application No.	Applicant(a)						
		Applicant(s)						
Office Action Summary	09/986,637	CHEN ET AL.						
Office Action Summary	Examin r	Art Unit						
The MAILING DATE of this communication and	Stephen J. Kalafut	1745						
The MAILING DATE of this communication appears on the cover sheet with the c rrespond nce addr ss Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1) Responsive to communication(s) filed on	·							
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.							
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-42 is/are pending in the application								
<u> </u>	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) 1-22,24,25 and 28-42 is/are allowed.								
<u> </u>	S) Claim(s) 23 and 26 is/are rejected.							
,	7)⊠ Claim(s) <u>27</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accept	pted or b)⊡ objected to by the Exa	miner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
<u> </u>	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4	5) Notice of Informal I	(PTO-413) Paper No(s) Patent Application (PTO-152)						

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Claims 23 and 26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is no antecedent for "the supplying means" in claim 23, or its parent claims 17 and 22. There are no ranges recited for the subscripts x and y in claim 26.

Claims 1-22, 24, 25 and 28-42 are allowed. The prior art, cited either below or by applicants, does not disclose a fuel cell stack, which includes a chamber and catalyst for producing hydrogen from a solution of a chemical hydride, within the stack itself.

Claim 27 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. This claim recites values for the subscripts within the hydride formula, and thus would have definite scope.

Claims 23 and 26 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action. These claims depend from allowable claim 17.

The disclosure is objected to because of the following informalities: The numeral 200 is used to denote two different items in figures 1 and 7. The specification does not mention this numeral with respect to figure 1. The detailed description does not refer to figure 5. Appropriate correction is required.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Rusta-Sellehy *et al.* (US 2003/0091879, US 2003/0091876 and US 2003/0014917) disclose inventions related to the present invention. Iwanciow (US 4,628,010), Lumsden *et al.* (US 2003/0108832) and Zaluski *et al.* (WO 01/85606) disclose devices for producing hydrogen from various hydrides. Hockaday *et al.* (US 6,544,400 and US 2002/0182459) and Nakanishi *et al.* (US 6,592,741) disclose fuel cells with devices for producing hydrogen from hydrides, the devices being located outside the respective fuel cell body.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 703-308-0433. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 703-308-2383. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

sjk